PII:S0016–0032(98)00030–1

Author Index

Abdallah, C., 827
Al-Assadi, S. A. K., 1125
Al-Noman, A. A., 1263
Amicucci, G. L., 1105
Amin, M. G., 35
Anderson, R. M., 199
Arvanitis, K. G., 359
Aved'Yan, E. D., 1195
Azou, S., 1507

Baldwin, R. L., 241
Basu, S., 1367
Bauer, P. H., 719
Bhalla, N., 35
Bhattacharjee, M., 333
Bianco, S. A., 1477
Biswas, G., 401
Bittanti, S., 929, 1195
Blyth, W. F., 1157
Borges, B.-H. V., 89
Boston, R. C., v, 281
Bouyekhf, R., 963
Brower, R. C., 213

Calvez, L. C., 1507
Chang, F.-A., 799
Chao, G.-L., 1249
Chellaboina, V.-S., 827
Chen, C.-K., 1271
Chen, S. Y., 1089
Chen, Y. H., 871
Chu, J., 517
Contarino, V. M., 109
Cook, J., 303

Danikas, M. G., 617, 983
Daryoush, A. S., v
Datta, K. B., 441, 731
de la Sen, M., 471
Deb, A., 333
Delisi, C., 213
Dhanoa, M. S., 241
Dijkstra, J., 241
Dixit, R., 13
Djennoune, S., 749
Draidi, J. A., 915

el Alami, N., 525
El Moudni, A., 749, 963
Elwakil, A. S., 771
Eryilmaz, B., 1443
Evangelatos, D. S., 1041

Fang, Y., 163
Fante, R. L., 1
Fausz, J. L., 827
Favre, W., 643
Feely, O., 533
France, J., 241
Frangos, C., 897
Futernik, A., 71

Garaev, K. G., 395
Garcia, R. C., 53
Ge, Q.-W., 877
Georgiou, E. N., 179

Haddad, T. F., 563
Haddad, W. M., 827
Haimovich, A. M., 71
Hammond, J. K., 1077
Han, C., 451
Han, K.-W., 679, 1249
Herczfeld, P. R., 89, 109, 117
Hinamoto, T., 1145, 1177, 1185
Horng, J.-H., 503
Hotta, K., 1145
Hsieh, J.-G., 695
Hsu, H.-H., 1053
Hu, Y.-Q., 1053

Ibrahim, M. M., 915

Jacquez, J. A., 259
Jang, H.-Y., 595
Jang, J., 451
Jasinschi, R. S., 1411
Ji, C.-C., 595
Jumarie, G., 1327

Kaiser, M. J., 129, 539
Kambule, M. T., 1477
Karimi, H. R., 375
Kawasaki, S.-J., 813
Khadra, L. M., 915
Khasawneh, M. A., 563, 915
Kimura, S. R., 213
Kincaid, T. G., 163
Klyachko, S. D., 1231
Kohout, E. J., 1089
Kolbehdari, M. A., 97
Kotsios, S., 533
Koumboulis, F. N., 661
Kung, F.-C., 951

Larin, V. B., 579
Lee, K.-H., 989
Lee, P. A., 1171
Lee, T.-T., 789
Liang, C.-C., 799
Lin, C. H., 679
Lin, Q., 1069
Lin, S.-F., 739
Liu, W. Q., 1207
Lu, D.-M., 1467
Lubkin, S. R., 303

Maeda, T., 1177
Malti, R., 851
Manikas, A., 375
Maquin, D., 851
Martin, D. J., 23
Martinez, M. A. G., 117
Mejia, R., v
Mickle, M. H., 629
Mohan, B. M., 441, 731
Monaco, S., 1105
Moshrefi-Torbati, M., 1077
Mosterman, P. J., 401
Muneyasu, M., 1145, 1177, 1185
Murray, J. D., 303

Nabelssi, B., 1089
Narducci, L. M., 117
Naveen, T., 1411
Nieves, L. A., 1089

Ouansafi, A., 525

Papaschinopoulos, G., 617
Paraskevopoulos, P. N., 1299
Paul, J. M., 629
Peng, S.-T., 1271
Perng, J.-W., 679, 1249

Ragot, J., 851
Razani, A., 1493
Rhodes, C. J., 199
Rokne, J. G., 1069

Sadek, I. S., 1477
Sadiku, M. N. O., 97
Sadiku, N. O., 53
Samuels, C., 117
Sarar, G., 333
Savaresi, S. M., 929
Scavarda, S., 643
Schuchardt, J. M., 23
Sen, S. KR., 333
Shahwan, K. W., 1009
Sheen, I. E., 605
Shen, S.-K., 789
Sheng-Hong Tsai, J., 951
Shieh, L. S., 605
Shtessel, Y. B., 841
Sloss, B. G., 1157
Soliman, A. M., 771, 997, 1283
Sowelam, S. M., 1341
Sreeram, V., 1207
Su, H., 517
Su, Y.-L., 1215
Sun, Y.-J., 695

Tabatabai, A. J., 1411
Taguchi, A., 1145
Teng, T.-L., 799
Teo, K. L., 1207
Tewfik, A. H., 1341
Tilbrook, R. W., 1089
Tsai, J. S. H., 605
Tsai, S. J., 679
Tseng, W. T., 679
Tsirikos, A. S., 1299
Tsui, C.-C., 623
Tsypkin, Y. Z., 1195
Tyson, R., 303
Tzierakis, G., 661

Vaidya, S. Y., 1493
Vajda, S., 213
Vieira, A. J. C., 109
Vilbe, P., 1507

Waas, A. M., 1009
Wang, A.-P., 739
Wang, B.-C., 789
Wang, C.-M., 989
Wang, J., 517
Wang, X. Q., 281
Wastney, M. E., 281
Weng, Z., 213
Wilson, B. H., 1443
Wilson, S. E., 1089
Wu, B.-F., 1053, 1215

Yagi, H., 1185
Yakao, T., 1177
Yanagida, H., 877
Yang, J.-J., 951
Yang, T., 1087
Yang, W.-Y., 707, 1207
Yavin, Y., 897
Yost, S. A., 719

Zhang, C., 213
Znaidi, N., 525

PII:S0016–0032(98)00031–3

Subject Index

A
Adaptive
  control, 471
  filters, 1185
  radar, 1, 71
Affine projection algorithm, 1185
Antennas and radar, v of No. 1
Array manifold, 375
Asymptotic stability, 719
Augmented system forms, 1041

B
Beamspace director-of-arrival estimation, 35
Bellman principle of optimality, 395
BIBO stability theorem, 533
Biomathematics, v of No. 2
Bond graph, 643, 1443
Buckling load, 989, 1009
Burmester curves, 1467

C
Chaos, 771
Closed loop stability, 749
Cone-angle parameters, 375
Constrained
  mechanical systems, 451
  robust controllers, 1271
Continuous and discrete time-delay interval systems, 605
Convective pin fins, 179

D
Decentralized state feedback, 951
Design
  of experiments, 259
Digital signal processing, 1339
Discrete
    linear quadratic minimum-time problem, 525
    singularly perturbed non-linear systems, 749
    time systems, 441, 503, 827, 1087
    wavelet transforms, 1215
Disposition alternatives for scrap metals, 1089
Disturbance rejection
    for a class of nonlinear systems, 1299
    in multivariable systems, 1125
Dynamic sliding manifolds, 841
Dynamical
  neural circuits, 163
  systems, 1507, 1477, 1195
Dynamics of damped pendulum, 563

E
Edge-preserving smoothing, 1145, 1177
Elastic plate in gas flow, 1231
Electrode microprotrusions, 983
Electrostatic problems, 53
Energy characteristics, 1263
Epidemic models, 199

F
Fabry-Perot intensity modulator, 109
Feedback discrete system, 533
Filter banks, 1367
Finite element analysis, 97
Firing time, 877
Fractional operators, 1077
Frequency
  domain analysis, 679, 1443

G
Geometric metrology, 129

H
Hopping apparatus, 579

I
Image
  compression, 1053, 1145
  entropy, 1327
  processing, 1327]
Inclusion isotonicity, 1069

K
Kalman estimation, 1195
Kinematic loops, 643

L
Laguerre polynomials, 1171
Linear
  exact model matching, 1299
  SISO system, 333
  systems, 731
  time varying analytic systems, 359
  uncertain systems, 517
LMS algorithm, 563
Lowpass filters, 1283
LTI system identification, 851

M
Markovian process, 1327
Microwave and millimeterwave applications, 13

Minimum
bias spatial filters, 35
function observer order, 623
zone separation functionals, 539
Motion estimation, 1411
Multiple loop systems, 789
Multiprocessor shared memory, 629

N
Neural
hybrid filters, 1145
networks, 503, 929, 1177
Neuro-Monte Carlo solution, 53
Nonlinear
cascade systems, 827
detectability, 1105
discrete systems, 503, 963
filters, 1177
singularly perturbed systems, 749
systems with multiple time delays, 695
Nonstationary
signals, 915

O
Optical signal modulation, 117
Optimal
control, 731, 827, 1207, 1477
waveforms, 1341
Orthogonal functions, 333, 441, 731, 1507, 1477
Oscillators, 997
Output
feedback, 661
tracking, 503

P
Parameter
estimation, 259
Pars's acceleration paradox, 871
Phase output tracking, 841
Physical system models, 401
Pole placement, 471
Predicting heat flux, 595
Published models, 281

Q
Quadrant/octant monopulse technique, 23

R
Radar, v of No. 1, 1341
Rainville's generalizing function, 1171
Random deletion model, 1171

Robust
controllers, 1271, 1443
H-infinity controller design, 517
stability, 951, 1249
Rolling
disk, 897
systems, 679
Ruminant nutrition, 241

S
Single mode fiber, 89
Singular systems, 1207
Solid dielectrics, 617
Solvation phenomena, 213
Spectral
Walsh function method, 1157
Spatial pattern formation, 303
Spherical motion, 1467
Stability
properties, 533, 1249, 1271
State feedback, 951, 1125, 1207
Static state feedback, 359
Subspace analysis, 707
SWITCH-less program nets, 877

T
Test cell energy delivery, 983
Thermal modeling, 1493
Time-delay systems, 695, 789, 1249, 1477
Time frequency distribution, 915
Time-variant polynomials, 719
Transfer function, 661, 1507, 1443

U
Uncertain
linear systems, 1443
Uncontrollable singular systems, 739

V
Vibration analysis, 679, 799
Video compression, 1411

W
Waveguide, 89
Wavelet, 813, 1053, 1215, 1367
Wideband
radar imaging, 1341